

SQR1242C

AEC-Q200

2in1



■ Features

- Small size and high efficiency are realized with the 2 in 1 structure, developed specifically for the SEPIC and ZETA c
- Magnetically shielded structure, high current.
- Four terminals structure for resisting to mechanical shock and vibration.
- AEC-Q200 compliant
- Operating temperature : -40°C~+125°C(The self-heating is included)

Magnetic structure :

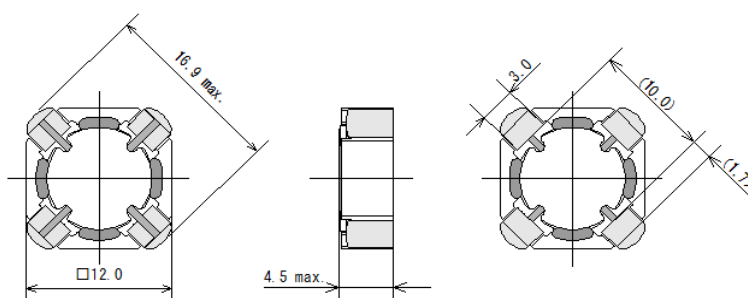


Weight : 2.1 g

■ Applications

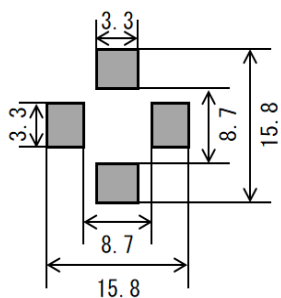
- Audio Visual/Camera
- Automotive/LED Headlights, Car Audio, Car Navigation, ECU
- Others/Power Supply, FA

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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■ Specifications

SAGAMI Part No.	Inductance (μ H)	DCR $\pm 30\%$ (Ω)		DC Saturation Allowable Current (A)	Temperature Rise Allowable Current (A)	
		④-③	②-①		One winding	Series connection
SQR1242C-1R2N	1.2 $\pm 30\%$	0.00800	0.00900	12.5	4.85	3.75
SQR1242C-2R0N	2 $\pm 30\%$	0.0110	0.0140	9.90	4.20	3.15
SQR1242C-2R7N	2.7 $\pm 30\%$	0.0140	0.0180	8.05	3.65	2.80
SQR1242C-3R9N	3.9 $\pm 30\%$	0.0200	0.0250	6.90	3.20	2.35
SQR1242C-5R1N	5.1 $\pm 30\%$	0.0250	0.0310	6.10	2.75	2.10
SQR1242C-6R8N	6.8 $\pm 30\%$	0.0330	0.0410	5.30	2.45	1.83
SQR1242C-8R2N	8.2 $\pm 30\%$	0.0410	0.0520	4.80	2.15	1.60
SQR1242C-100M	10 $\pm 20\%$	0.0520	0.0640	4.25	2.00	1.48
SQR1242C-120M	12 $\pm 20\%$	0.0580	0.0720	4.05	1.80	1.35
SQR1242C-150M	15 $\pm 20\%$	0.0790	0.100	3.40	1.55	1.18
SQR1242C-180M	18 $\pm 20\%$	0.0900	0.110	3.10	1.45	1.10
SQR1242C-220M	22 $\pm 20\%$	0.100	0.130	2.95	1.35	1.03
SQR1242C-270M	27 $\pm 20\%$	0.130	0.160	2.50	1.20	0.900
SQR1242C-330M	33 $\pm 20\%$	0.160	0.200	2.25	1.05	0.800
SQR1242C-390M	39 $\pm 20\%$	0.190	0.240	2.10	0.950	0.730
SQR1242C-470M	47 $\pm 20\%$	0.220	0.280	1.90	0.850	0.650
SQR1242C-560M	56 $\pm 20\%$	0.280	0.350	1.80	0.800	0.600
SQR1242C-680M	68 $\pm 20\%$	0.330	0.420	1.60	0.730	0.550
SQR1242C-820M	82 $\pm 20\%$	0.410	0.510	1.53	0.650	0.490
SQR1242C-101M	100 $\pm 20\%$	0.510	0.640	1.33	0.600	0.440
SQR1242C-121M	120 $\pm 20\%$	0.610	0.740	1.20	0.550	0.400

Inductance Measuring Condition: 100kHz, 1V

DC saturation allowable current: The current value which inductance decrease within 30% from the initial value

Temperature rise allowable current: The rise in temperature of core surface is within 40°C



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